

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/006820

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ A61K39/39, 9/08, 31/24, 31/282, 31/704, 31/7064, 35/76, 38/00,
45/00, 47/18, 47/28, A61P35/00, C07D239/553, 487/14, 491/22,
C07H15/12, 15/252

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ A61K39/39, 9/08, 31/24, 31/282, 31/704, 31/7064, 35/76, 38/00,
45/00, 47/18, 47/28, C07D239/553, 487/14, 491/22, C07H15/12,
15/252

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

REGISTRY/CA/MEDLINE/EMBASE/BIOSIS (STN), JSTplus/JMEDplus (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Tsuyoshi NAKANISHI et al., "Vaccine no Kaihatsu ni mukete no DDS", Drug Delivery System, 1999, Vol.14, No.6, pages 459 to 469	1-9 15-40, 46-50, 57-61, 66-68
X Y	PALMER, J.C. et al., Non-infectious virus induces cytotoxic Tlymphocytes and binds to target cells to permit their lysis, Nature, 1977, Vol.269, pages 595 to 597.	1-9 15-40, 46-50, 57-61, 66-68
X Y	JP 2002-508748 A (CHIRON CORP.), 19 March, 2002 (19.03.02), & WO 98/50071 A1 & EP 980257 A1	1-9 15-40, 46-50, 57-61, 66-68

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
31 May, 2005 (31.05.05)

Date of mailing of the international search report
14 June, 2005 (14.06.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2001-302541 A (ZH KAGAKU & KESSEI RYOHO KENKYUSHO), 31 October, 2001 (31.10.01), (Family: none)	1-9 15-40, 46-50, 57-61, 66-68
X Y	FUKAMI, Y. et al., Difference in Capacity of Sendai Virus Envelope Components to Induce Cytotoxic T Lymphocytes in Primary and Secondary Immune Responses, INFECTION AND IMMUNITY, 1979, Vol.26, No.3, pages 815 to 821	1-9 15-40, 46-50, 57-61, 66-68
Y	Edited by Chikako TANAKA et al., "NEW Yakurigaku", the third edition, 1996, pages 557 to 568	15-40, 46-50, 57-61, 66-68
Y	JP 2002-065278 A (ANJESU MG Kabushiki Kaisha), 05 March, 2002 (05.03.02), (Family: none)	15-40, 46-50, 57-61, 66-68
Y	WO 03/14338 A1 (ANGES MG INC.), 20 February, 2003 (20.02.03), & JP 2003-519468 A & EP 1420065 A1	15-40, 46-50, 57-61, 66-68
Y	JP 2001-286282 A (ANGES MG INC., JP), 16 October, 2001 (16.10.01), & WO 01/57204 A1 & EP 1170363 A1 & KR 2002004987 A & CN 1365388 A	15-40, 46-50, 57-61, 66-68
A	JP 8-508641 A (BRITISH TECHNOLOGY GROUP LTD.), 17 September, 1996 (17.09.96), & WO 94/21798 A1 & EP 689596 A1	1-9, 15-40, 46-50, 57-61, 66-68
A	WO 03/29475 A1 (Dनावेक रेस. इन्क.), 10 April, 2003 (10.04.03), & EP 1447451 A1 & KR 2004040475 A	1-9, 15-40, 46-50, 57-61, 66-68

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 10-14, 41-45, 51-56, 62-65

because they relate to subject matter not required to be searched by this Authority, namely:

Claims 10 to 14, 41 to 45, 51 to 56 and 62 to 65 pertain to methods for treatment of the human body by therapy and thus relate to a subject matter which this International Searching Authority is not required, under the provisions of Article 17(2)(a)(i) of the PCT (continued to extra sheet)

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Continuation of Box No.II-1 of continuation of first sheet(2)

and Rule 39.1(iv) of the Regulations under the PCT, to search.

*Scope of international search:

The inventions according to claims 1 to 5, 7, 8, 15 to 23 and 25 to 33 relate to use of a virus envelope as an adjuvant in antitumor immunity and envelopes originating in an extremely large a number of viruses are involved in the scope thereof. However, it appears that only small part of virus envelopes having an antitumor effect are supported by the description in the meaning within PCT Article 6 and disclosed therein in the meaning within PCT Article 5.

In the international search report, therefore, prior art documents were searched for based on the envelopes specifically disclosed in the description.